

## **Amendment to the Specification**

Amend the paragraph beginning at page 14, line 10 as follows:

-- Referring to Figure 1, an array antenna receiver system for receiving signals from a plurality of user transmitters (not shown) comprises an array antenna having a plurality of antenna elements, specifically  $N$  elements  $22/1, \dots, 22/N$ , each coupled to a respective one of a corresponding plurality of RF front-end processing units  $26/1, \dots, 26/N$  of an RF receiver section 26, which units treat the signals from the antenna elements to produce  $N$  antenna signals  $x_1, \dots, x_N$ , respectively. Each of the RF front-end units  $26/1, \dots, 26/N$  has its output coupled to the input of each of a set of  $M+1$  filters, specifically subspace filters,  $40/0, \dots, 40/M$ , of a common preprocessing section 40. Each of the subspace filters  $40/0, \dots, 40/M$  is matched to a respective one of an ensemble of  $M+1$  transmitting users, and has its output coupled to the input of each of a corresponding plurality of user-specific signal processors  $60/0, \dots, 60/M$  of a signal processing section 60. Each of the signal processors  $60/0, \dots, 60/M$  processes the respective set of the basis, specifically subspace, signals  $y_0, \dots, y_M$  of the subspace filters  $40/0, \dots, 40/M$ , respectively, to produce a corresponding one of a plurality of estimates  $z_0, \dots, z_M$  of the signals  $s_0, \dots, s_M$  transmitted by the  $M+1$  users. --